



# CAIT

Center for Advanced Infrastructure & Transportation  
Rutgers, The State University of New Jersey

## QUARTERLY PROGRESS REPORT

Project Title:	Stormwater System Monitoring and Evaluation PHASE 2		
RFP NUMBER: 2007-10	NJDOT RESEARCH PROJECT MANAGER: Lad Szalaj		
TASK ORDER NUMBER: TO 200 / RU Acct 4-2xxxx (pending)	PRINCIPAL INVESTIGATOR: Dr. Qizhong (George) Guo		
Project Starting Date: 01/01/2007 Original Project Ending Date: 12/31/2008 Modified Completion Date:	Period Covered: 1 <sup>st</sup> Quarter 2007		

Task #	Task	% of Total	Fixed Budget	% of Task this quarter	Cost this quarter	% of Task to date	Total cost to date
1	Mobilization	1.61%	\$ 3,000	100.0%	\$ 3,000	100.0%	\$ 3,000
2	Literature Search	1.61%	\$ 3,000	90.0%	\$ 2,700	90.0%	\$ 2,700
3	LITERATURE SEARCH	6.99%	\$ 13,000	30.0%	\$ 3,900	30.0%	\$ 3,900
4	TECHNICAL PANEL	5.37%	\$ 10,000	20.0%	\$ 2,000	20.0%	\$ 2,000
5	THREE REGIONS	8.60%	\$ 16,000	10.0%	\$ 1,600	10.0%	\$ 1,600
6	REPRESENTATIVE DEVICES	5.37%	\$ 10,000	10.0%	\$ 1,000	10.0%	\$ 1,000
7	PRE-MONITORING CLEAN-OUT	8.06%	\$ 15,000	0.0%	\$ -	0.0%	\$ -
8	MONITORING AND ANALYSIS	37.62%	\$ 70,000	0.0%	\$ -	0.0%	\$ -
9	MAINTENANCE GUIDANCE	6.99%	\$ 13,000	0.0%	\$ -	0.0%	\$ -
10	Final Report and Quarterly Reporting	17.78%	\$ 33,080	0.0%	\$ -	0.0%	\$ -
11		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
12		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
13		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
14		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
15		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
16		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
17		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
18		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
19		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
20		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
	<b>TOTAL</b>	100.00%	\$ 186,080		\$ 14,200		\$ 14,200

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Green text is updated ever quarter

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## Project Objectives:

1. Monitor the amounts of sediment, oil, grease, and buoyant debris that would be actually trapped in the stormwater treatment system units installed by NJDOT.
2. Relate the trapped amounts of sediment, oil, grease, and buoyant debris to highway drainage area characteristics.
3. Provide NJDOT with quantitative guidance on the maintenance/cleanup schedule and measures to reduce maintenance/cleanup frequency.

## Project Abstract:

To improve the quality of highway runoff and meet the new stormwater management requirements, the New Jersey Department of Transportation (NJDOT) has installed numerous prefabricated stormwater treatment systems throughout the state produced by a range of manufacturers. The use of such systems, known as Manufactured Treatment Devices (MTDs), is expected to continue in the foreseeable future. As the responsible party for the maintenance of these MTDs, NJDOT is interested in determining optimum maintenance intervals and expected maintenance costs for the range of MTDs utilized by the Department. This project will monitor and document maintenance procedures, intervals, and costs for a representative range of MTDs.

### 1. Progress this quarter by task:

The project was started and mobilized. The preliminary literature is in near completion. Task 1 (in-depth literature review), Task 2 (formation of technical panel), Task 3 (determination of three regions), and Task 4 (selection of representative devices for monitoring) were started.

### 2. Proposed activities for next quarter by task:

Task 1 (in-depth literature review), Task 2 (formation of technical panel), Task 3 (determination of three regions), and Task 4 (selection of representative devices for monitoring) will be completed. Task 5 (pre-monitoring cleanout) and Task 6 (monitoring and evaluation) will be started.

### 3. List of deliverables provided in this quarter by task (product date):

None.

### 4. Progress on Implementation and Training Activities:

None.

### 5. Problems/Proposed Solutions:

The contract was not developed until February 2007. Attempts will be made to make up the lost time.



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Total Project Budget	\$186,080
<b>Modified Contract Amount:</b>	\$186,080
Total Project Expenditure to date	\$14,200
% of Total Project Budget Expended	7.63%

NJDOT Research Project Manager Concurrence: \_\_\_\_\_ Date: \_\_\_\_\_